IN THE CLAIMS

Please amend the claim as follows:

1. (Currently Amended) An optical source generator for wavelength-division-multiplexing optical communication systems, comprising:

a pumping-light generation section ~~for~~ configured to generate~~ing~~ and output~~ting~~ pumping lights;

a wavelength-division multiplexer/demultiplexer~~,~~ being provided with one multiplexing port and a plurality of demultiplexing ports~~, for~~ being configured to wavelength-division-multiplex~~ing~~ and output~~ting~~ optical signals inputted into the multiplexing port, and ~~for~~ being configured to wavelength-division-demultiplex~~ing~~ and output~~ting~~ optical signals inputted into the demultiplexing ports;

an optical path converter ~~for~~ configured to output~~ting~~ the pumping lights generated and received from the pumping-light generation section to the multiplexing port of the wavelength-division multiplexer/demultiplexer by converting a path of the pumping lights~~,~~ and ~~for~~ to output~~ting~~ optical signals outputted from the multiplexing port of the wavelength-division multiplexer/demultiplexer through converted paths for the optical signals;

a plurality of wavelength-dependent reflectors, each being connected to one of the respective demultiplexing ports of the wavelength-division multiplexer/demultiplexer~~,~~ and each ~~for~~ being configured to reflect~~ing~~ only optical signals that have a particular wavelength that corresponds to one of the respective said demultiplexing ports;

a plurality of optical fiber amplifiers, each having two sides, one side of which ~~is~~ being connected to one of the associated wavelength-dependent reflectors~~, for~~ and each amplifier being configured to generate~~ing~~ spontaneously emitted lights in response to pumping lights generated

from the pumping-light generation section; and,

a plurality of wavelength-independent reflectors, each being connected to the other side of one of the respective optical fiber amplifiers~~, for reflecting all optical signals including said optical signals that have a particular wavelength~~.

2. (Original) The optical source generator according to claim 1, wherein each reflectance of the wavelength-dependent reflectors and each reflectance of the wavelength-independent reflectors are controlled independently, thereby enabling optical sources to be transmitted through the respective reflectors unilaterally or bilaterally.

3. (Original) The optical source generator according to claim 1, wherein the wavelength-dependent reflectors comprise fiber-Bragg gratings which are each connected respectively to the demultiplexing ports of the wavelength-division multiplexer/demultiplexer.

4. (Original) The optical source generator according to claim 1, wherein the wavelength-dependent reflectors comprise thin film-filter reflectors which are each connected respectively to the demultiplexing ports of the wavelength-division multiplexer/demultiplexer and have respective thin film filters.

5. (Currently Amended) The optical source generator according to claim 1, wherein the optical path converter includes an optical circulator comprising:

a first port ~~for~~ configured to input~~ting~~ pumping lights generated from the pumping-light generation section;

a second port connected to the multiplexing port of the wavelength-division

multiplexer/demultiplexer; and,

a third port ~~for~~ configured to output~~ting~~ the wavelength-division-multiplexed optical signals.

6. (Currently Amended) The optical source generator according to claim 1, further comprising a plurality of modulators ~~for~~ configured to use~~ing~~ wavelength-division-multiplexed lights passing through the wavelength-independent reflectors as individual optical sources.

7. (Currently Amended) An optical source generator for wavelength-division-multiplexing optical communication systems, comprising:

a wavelength-division multiplexer/demultiplexer~~,~~ being provided with one multiplexing port and a plurality of demultiplexing ports, ~~for~~ being configured to wavelength-division-multiplexing and output~~ting~~ optical signals inputted into the multiplexing port, and ~~for~~ being configured to wavelength-division-demultiplex~~ing~~ and outputting optical signals inputted into the demultiplexing ports;

a pumping-light generation section ~~for~~ configured to generate~~ing~~ and output~~ting~~ pumping lights;

an optical path converter having a first port ~~for~~ being configured to input~~ting~~ pumping lights generated from the pumping-light generation section, a second port being connected to the multiplexing port of the wavelength-division multiplexer/demultiplexer, and a third port ~~for~~ being configured to output~~ting~~ the wavelength-division-multiplexed optical signals;

~~a plurality of wavelength-dependent reflectors, each connected to one of the respective demultiplexing ports of the wavelength-division multiplexer/demultiplexer, for reflecting only optical signals that have a particular wavelength that corresponds to one of the respective said~~

~~demultiplexing ports;~~

a plurality of optical fiber amplifiers~~, each having two sides one side of which is connected to one of the associated wavelength-dependent reflectors, for~~ being configured to generate~~ing~~ spontaneously emitted lights in response to pumping lights generated from the pumping-light generation section;

a first plurality of wavelength-independent reflectors, each connected to the ~~other~~ one side of one of the respective optical fiber amplifiers~~, for reflecting all optical signals including said optical signals that have a particular wavelength~~;

an optical band pass filter~~,~~ having two sides, one ~~of which is~~ side being connected to the third port of the optical path converter, the optical band pass filter being configured to ~~for~~ pass~~ing through~~ only the optical source bands; and,

a ~~second plurality of~~ wavelength-independent reflectors~~, each~~ other than the first plurality of wavelength-independent reflectors being connected to the other side of the optical band pass filter~~, for reflecting all optical signals including said optical signals that have a particular wavelength~~,

wherein the optical band pass filter is interposed between the first plurality of wavelength-independent reflectors and the wavelength-independent reflector other than the first plurality of wavelength-independent reflectors.

8. (Currently Amended) The optical source generator according to claim[[1]] 7, wherein each reflectance of the ~~first and second~~ wavelength-independent reflectors is controlled independently~~, thereby~~ and each reflectance enabling the optical sources to be transmitted through the respective reflectors unilaterally or bilaterally.

9. (New) The optical source generator according to claim 1, wherein the optical source generator is configured to output light bidirectionally.

10. (New) The optical source generator according to claim 1, wherein each of the wavelength-dependent reflectors is configured to transmit a portion of the optical signals incident upon its surface.

11. (New) The optical source generator according to claim 1, wherein each of the wavelength-independent reflectors is configured to transmit a portion of the optical signals incident upon its surface.

12. (New) The optical source generator according to claim 7, wherein the optical source generator is configured to output light bidirectionally.

13. (New) The optical source generator according to claim 7, wherein each of the first plurality of wavelength-independent reflectors is configured to transmit a portion of the optical signals incident upon its surface.

14. (New) The optical source generator according to claim 7, wherein the wavelength-independent reflector other than the first plurality of wavelength-independent reflectors is configured to transmit a portion of the optical signals incident upon its surface.